



NARESHKUMAAR .T

Metallurgist | PSG Tech

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Summary:

- Metallurgist with 6+ years of working experience, specializing in materials like Carbon steel, alloy steel, and Aluminium, Copper and its alloys
- Expertise in Heat treatment processes of Steel, Resistance welding of copper and its alloys
- Expertise in Metallurgical analysis, Failure Analysis, Quality Audits
- Exposure to International Materials Standards
- Exposure to IATF standard and working relationship with global Auto component & OEMs

Experience:

Organization	Department	Designation	Responsibilities
LUCAS – TVS Ltd , Chennai (May'17 ~ Present)	Engineering center	Engineer – Metallurgy	<ul style="list-style-type: none">• Material & Process development - NPD• Technical specification release• VA/VE• Process Establishment & Improvement• Metallurgical analysis• Failure Analysis• Bench marking• Metallurgical Lab Maintenance
LG Balakrishnan & Bros Ltd (ROLON) (Feb'15 to May'17)	R&D Division	Engineer – Metallurgy	<ul style="list-style-type: none">• Material & Process development - NPD• Material Testing• Bench marking• Failure Analysis• Lead – Calibration & AMC• Metallurgical Lab Maintenance
Craftsman Automation Pvt Ltd (Jun'14 – Feb'15)	Aluminium Foundry	Graduate Engineer Trainee	<ul style="list-style-type: none">• Microstructure Analysis of Aluminium, Sand Analysis, Mechanical Testing, Chemical Composition Analysis,• Metallurgical Lab Maintenance

Technical Exposure

➤ New Product Development(NPD):

- Organizing Heat treatment & Welding feasibility reviews
- Recommending suitable Materials to meet the desired properties to design team
- Technical assistance to the NPD team (Material, Process)
- Recommending suitable process cycles to meet the desired properties to design team
- Establishing new development process in Heat treatment and welding
- Vendor development

➤ Heat Treatment:

- Expertise in processes and validation of Case Hardening , Surface Treatment (Nitriding) & Induction Hardening
- Exposure to major heat treating furnaces like SQF (Sealed Quench Furnace), CMBF (Continuous Mesh Belt Furnace), Rotary Furnace , Tempering Muffle or Oven & Induction Hardening machine
- Exposure to T6 heat treatment process for aluminium

➤ Welding:

- Exposure to Resistance welding, TIG welding, Capacitor discharge welding, Brazing
- Exposure to welding of Copper and steel

➤ Metal Casting:

- Working experience in sand and die casting of aluminium
- Working exposure in High Pressure Die Casting (HPDC) & Low Pressure Die Casting (LPDC)
- Working exposure of melting of aluminium

➤ Metallurgical Analysis:

- Expertise in Raw material analysis, Material property Testing : Chemical composition analysis, Tensile strength analysis, Breaking load analysis, Hardness testing, Compression strength test
- Expertise in Microstructure analysis of Steel and Aluminium

➤ Instruments Skills:

- Hardness Testing Machines like Rockwell, Brinell, Vickers & Micro Vickers
- Metallurgical Microscope and Stereoscope (Leica)
- Optical emission spectroscopy (ARL3460 & Spectromax)
- Carbon Sulphur analyser (Horiba), X –RAY Fluorescent spectroscopy (Thermo fisher)
- UTM,Tensometer (Tensile strength, Crushing strength,Breaking load analysis)

➤ Failure Analysis:

- FMEA in Process front, Field failure analysis & corrective action
- Exposure with 7QC tools

Academics:

<i>Course</i>	<i>Institution</i>	<i>Year</i>	<i>Marks</i>
<i>B.E (Metallurgy)</i>	PSG College of Technology, Coimbatore – 641004	2014	7.04
<i>Higher Secondary</i>	Saratha Higher Secondary School, Gobichettipalayam – 638476	2010	89 %
<i>Secondary</i>	Saratha Higher Secondary School, Gobichettipalayam – 638476	2008	94 %

Achievements:

- Lead profitability improvement programs for cost savings worth Rs.25L
- Implemented Austempering process in Brush spring (starter motor) for Korean OEM

Other Interests:

Basketball, Photography, Music

Curriculum vitae:

<i>Name</i>	T.NARESHKUMAAR
<i>Father's Name</i>	M.THIRUNAVUKARASU
<i>Mother's Name</i>	D.ARUL SELVI
<i>Date of Birth</i>	17-Jul-1993

I hereby declare that all the particulars furnished above are true to the best of my knowledge

Place: CHENNAI

T.NARESHKUMAAR